

# Receiving Report

Date: 15-01-21

Batch No: 131320

Supplier: KLX

Dart P/O: 27096

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☒ No ☐  
 Receipt: Cash ☐ Cr ☒  
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection ☐ N/A ☒  
 Work Order ☐ N/A ☒

## Discrepancies

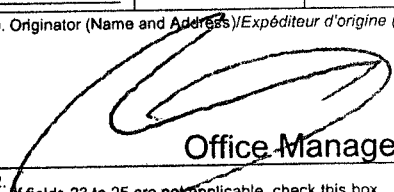
Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver QC12

Production/Admin:    
 Date:    
 Received/Costing:    
 Initial:  

Location



1. Vendor (Name and Address)/Vendeur (Nom et adresse) <b>KLX Inc.</b> <b>P.O. Box 025263</b> <b>Miami, FL 33102-5263</b>		2. Date of Direct Shipment to Canada/Date d'expédition directe vers la Canada <b>01/19/2015</b>	
4. Consignee (Name and Address)/Destinataire (Nom et adresse) <b>DART AEROSPACE LTD</b> <b>1270 ABERDEEN ST</b> <b>HAWKESBURY, ON</b> <b>CANADA K6A 1K7</b>		5. Purchaser's Name and Address (If other than Consignee)e) Nom et adresse de l'acheteur (S'il diffère du destinataire) <b>DART AEROSPACE LTD</b> <b>1270 ABERDEEN ST</b> <b>HAWKESBURY, ON</b> <b>CANADA K6A 1K7</b>	
		6. Country of Transshipment/Pays de transbordement <b>CANADA</b>	
		7. Country of Origin of Goods Pays d'origine des marchandises <b>USA</b>	IF SHIPMENT INCLUDES GOODS OF DIFFERENT ORIGINS ENTER ORIGINS AGAINST ITEMS IN 12 SI L'EXPÉDITION COMPREND DES MARCHANDISES D'ORIGINES DIFFÉRENTES, PRÉCISER LEUR PROVENANCE EN 12
8. Transportation: Give Mode and Place of Direct Shipment to Canada Transport: Préciser mode et point d'expédition directe vers le Canada <b>FEDX INTL P1 COLL</b>		9. Conditions of Sales and Terms of Payment (i.e. Sale, Consignment Shipment, Leased Goods, etc.) Conditions de vente et modalités de paiement (p. ex. vente, expédition en consignation, location de marchandises, etc.) <b>NET 45</b>	
		10. Currency of Settlement/Devises du paiement <b>U.S. Currency</b>	
11. No. of Pkgs Nbre de colis	12. Specification of Commodities (Kind of Packages, Marks and Numbers, General Description and Characteristics, i.e. Grade, Quality) Désignation des articles (Nature des colis, marques et numéros, description générale et caractéristiques, p. ex. classe, qualité)	13. Quantity (State Unit) Quantité (Préciser l'unité)	14. Unit Price Prix unitaire
1	PO#: PO27096 AN3C4A AN4-15A AN3C5A AN4-7A AN4C6A	Invoice#: HY117V BOLT BOLT BOLT BOLT BOLT	400 300 500 100 200
1	PO#: PO27096 AN3-10A AN4-42A AN4-45A	Invoice#: HY117V BOLT BOLT BOLT	100 80 30
		15. Total	
		0.250 /EA 0.250 /EA 0.300 /EA 0.170 /EA 0.500 /EA	
		100.00 75.00 150.00 17.00 100.00	
		U.S. Currency	
16. Total Weight/Poids Total		17. Invoice Total Total de la facture	
Net		Gross/Brut	
43 lb 0oz		923.10	
18. If any of fields 1 to 17 are included on an attached commercial invoice, check this box. Si les renseignements des zones 1 à 17 figurent sur la facture commerciale, cocher cette boîte. <input checked="" type="checkbox"/>		19. Exporter's Name and Address (if other than Vendor) Nom et adresse de l'exportateur (S'il diffère du vendeur) <b>KLX Inc.</b> <b>10000 NW 15 TERRACE</b> <b>MIAMI, FL 33172</b>	
20. Originator (Name and Address)/Expéditeur d'origine (Nom et adresse)  <b>Office Manager</b>		21. Departmental Ruling (if applicable)/Décision du Ministère (S'il y a lieu)	
22. If fields 23 to 25 are not applicable, check this box Si les zones 23 à 25 sont sans objet, cocher cette boîte. <input checked="" type="checkbox"/>		23. If included in field 17 indicate amount: Si compris dans le total à la zone 17, préciser: (i) Transportation charges, expenses and insurance from the place of direct shipment to Canada Les frais de transport, dépenses et assurances à partir du point d'expédition directe vers le Canada \$ (ii) Costs for construction, erection and assembly incurred after importation into Canada Les coûts de construction, d'érection et d'assemblage après importation au Canada \$ (iii) Export packing Le coût de l'emballage d'exportation \$	
24. If not included in field 17 indicate amount: Si non compris dans le total à la zone 17, préciser: (i) Transportation charges, expenses and insurance to the place of direct shipment to Canada Les frais de transport, dépenses et assurances jusqu'au point d'expédition directe vers le Canada \$ (ii) Amounts for commissions other than buying commissions Les commissions autres que celles versées pour l'achat \$ (iii) Export packing Le coût de l'emballage d'exportation \$		25. Check (if applicable) Cocher (S'il y a lieu): (i) Royalty payments or subsequent proceeds are paid or payable by the purchaser De redevances ou produits ont été ou seront versés par l'acheteur <input type="checkbox"/> (ii) The purchaser has supplied goods or services for use in the production of these goods L'acheteur a fourni des marchandises ou des services pour la production des marchandises <input type="checkbox"/>	



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXaerospace.com  
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001  
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York  
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HY117V

PAGE 1 OF 6

SEND TO ACCOUNTING

SOLD TO:

002409  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS	
PO27096		01/19/15	FEDX INTL P1 COLL	NET 45		FOB-MIAMI	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
1	50	AN310-4 NUT ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: GREER STOP NUT / SPS TECH CTRL# : 2009C06013 LOT# : 502115 26 LOT QTY: 50 COUNTRY OF ORIGIN: USA Country of Origin: USA	0.650	EA	0	50	32.50
2	50	AN310-5 NUT ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: GREER STOP NUT / SPS TECH CTRL# : 2014B05326 LOT# : 0503315-310 LOT QTY: 50 COUNTRY OF ORIGIN: USA Country of Origin: USA	0.700	EA	0	50	35.00
3	100	AN3-10A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: LFC INDUSTRIES CTRL# : 2013K13365 LOT# : 52924LII LOT QTY: 100	0.150	EA	0	100	15.00
***CONTINUED***							
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.							

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

### ORIGINAL INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:  
<http://www.KLXaerospace.com/conditions-sale/>



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SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS	
PO27096		01/19/15	FEDX INTL P1 COLL	NET 45		FOB-MIAMI	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
4	400	COUNTRY OF ORIGIN: USA Country of Origin: USA AN3C4A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: MAC FASTENERS CTRL# : 2014C02658 LOT# : 68523 LOT QTY: 400	0.250	EA	0	400	100.00
5	300	COUNTRY OF ORIGIN: USA Country of Origin: USA AN4-15A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: MAC FASTENERS CTRL# : 2014E13592 LOT# : 68551 LOT QTY: 300	0.250	EA	0	300	75.00
6	500	COUNTRY OF ORIGIN: USA Country of Origin: USA AN3C5A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: MAC FASTENERS CTRL# : 2014J29146	0.300	EA	0	500	150.00
***CONTINUED***							
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CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS	SHIPPING TERMS		
PO27096		01/19/15	FEDX INTL P1 COLL	NET 45	FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
7	80	LOT# : 68636 LOT QTY: 500 COUNTRY OF ORIGIN: USA Country of Origin: USA AN4-42A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: CALIFORNIA SCREW PRODUCTS CTRL# : 2011I21040 LOT# : 323300 LOT QTY: 80 COUNTRY OF ORIGIN: USA Country of Origin: USA	1.150	EA	0	80	92.00
8	30	AN4-45A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: AIRFASCO INDUSTRIES CTRL# : 2012F18866 LOT# : 12976 LOT QTY: 30 COUNTRY OF ORIGIN: USA Country of Origin: USA	1.000	EA	0	30	30.00
10	100	AN4-7A BOLT ECCN :9A991 TARIFF: 7318.15.8085	0.170	EA	100	0	
11	25	AN4C11A	0.800	EA	0	25	20.00
***CONTINUED***							
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CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

ORDER NO. PO27096		DATE 01/19/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
12	200	BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: MAC FASTENERS CTRL# : 2014J02404 LOT# : 68533 LOT QTY: 25 COUNTRY OF ORIGIN: USA Country of Origin: USA AN4C6A			0.500	EA	0	200	100.00
13	150	BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: MAC FASTENERS CTRL# : 2014K06656 LOT# : 68619 LOT QTY: 200 COUNTRY OF ORIGIN: USA Country of Origin: USA AN5C7A			0.970	EA	0	150	145.50
***CONTINUED***									
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SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

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PAGE 5 OF 6

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1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

ORDER NO. PO27096		DATE 01/19/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-MIAMI	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
14	20	Country of Origin: USA AN6-45A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: AIRFASCO INDUSTRIES CTRL# : 2013D06442 LOT# : 13161 LOT QTY: 20 COUNTRY OF ORIGIN: USA Country of Origin: USA		3.370	EA	0	20	67.40
15	6	AN814-8D PLUG ECCN :9A991 Country Origin: USA TARIFF: 7609.00.0000 MFR: NELSON AEROSPCE/PERMASWAG CTRL# : 2014K06449 LOT# : 00033227-35514 LOT QTY: 6 COUNTRY OF ORIGIN: USA Country of Origin: USA  These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.		3.950	EA	0	6	23.70
***CONTINUED***								
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1270 ABERDEEN ST  
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CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7



ORDER NO. PO27096		DATE 01/19/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
16	10	AN924-6J NUT, FITTING ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: INLAND MACHINE CTRL# : 2006F02687 LOT# : 5449A LOT QTY: 10 COUNTRY OF ORIGIN: USA Country of Origin: USA  <i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i>  FREIGHT ACCT# 15179324-0			2.000	EA	0	10	20.00
							SUBTOTAL :		20.00
							HANDLING :		0.00
							DISC/ALL :		0.00
							INCM FRT :		0.00
							FREIGHT :		0.00
							TOTAL :		20.00USD
									U.S. CURRENCY
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SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172



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PAGE 1 OF 2

**SOLD TO:**

002409

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

**SHIP TO:**

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

HIST-REPRINT

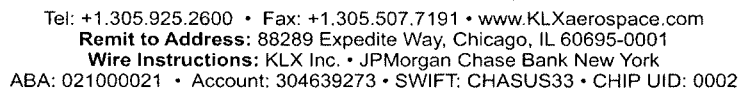
ORDER NO. PO27096		DATE 01/19/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-WICHITA		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
9	10	AN4-55A BOLT ECCN :9A991 Country Origin: USA TARIFF: 7318.15.8085 MFR: AIRFASCO INDUSTRIES CTRL# : 2008D08455 LOT# : 14584 LOT QTY: 10 COUNTRY OF ORIGIN: USA Country of Origin: USA These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.			9.95	EA	0	10	99.50
***CONTINUED***									
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.									

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**SHIPPED FROM:** 10900 E 26TH ST N., WICHITA, KS 67226

**DUPLICATE INVOICE**

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:  
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**HYONXY**

PAGE 2 OF 2

SOLD TO: 002409  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

HIST-REPRINT

ORDER NO. PO27096		DATE 01/19/15	SHIP VIA FEDX INTL P1 COLL	TERMS NET 45		SHIPPING TERMS FOB-WICHITA		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
	*** SHIPPED 1 CTN *** # 1=CTN 2# 0 OZ. 576317196181 FREIGHT ACCT# 15179324-0 TEL# 613-632-3336  DIMENSIONS: 6X6X4							
cx	9H4ZX5	SHIPPED ON 01/19/15						
form #	16230.000311							
							SUBTOTAL :	99.50
							HANDLING :	0.00
							DISC/ALL :	0.00
							INCM FRT :	0.00
							FREIGHT :	0.00
							TOTAL :	99.50USD
								U.S. CURRENCY
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**SHIPPED FROM:** 10900 E 26TH ST N., WICHITA, KS 67226

DUPLICATE INVOICE

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<http://www.KLXAerospace.com/conditions-sale/>



**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

CER

MA

P.O. Box 025263, Miami, FL 33102-5263  
Plant Location: 10000 N.W. 15th Terr  
www.KLX

305.925.2600 • Fax: 305.507.7191  
Miami, FL 33172 • SITA: MIAMMCR  
ice.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

CUSTOMER: B/E AEROSPACE

PART NUMBER: AN4-7A

MANUFACTURED QUANTITY: 126,000

COUNTRY OF ORIGIN: UNITED STATES

DFARS 252.225.7009 Compliant

**Material Certification**

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD****PURCHASE ORDER#: PO27096**

ME

MacFasteners Inc. c  
do not con  
manu

We certify that the parts furnished  
by MAC FASTENERS, INC. within  
applicable drawings and specifica


Objective evidence of compliance

DATE: 01/25/13

N

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
10	100	EA	AN4-7A		63210	MAC FASTENERS	0RPT4		

Inv # 01/19/15

  
son Lewis  
Senior Director, Global Quality

01/19/15



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
13	150	EA	AN5C7A		64592	MAC FASTENERS	ORPT4		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

MAC FASTENERS, INC.  
1110 ENTERPRISE  
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0KHB23

PART NUMBER: AN5C7A

REV: 2

LOT NUMBER: 64592

MANUFACTURED QUANTITY: 30,000

MILL HEAT NUMBER: 567315

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

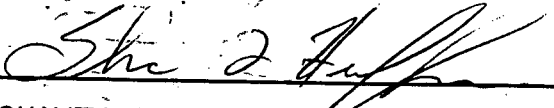
**MERCURY FREE CERTIFICATION**

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 12/24/13

  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
3	100	EA	AN3-10A		52924LII	LFC INDUSTRIES	62384		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
7	80	EA	AN4-42A		323300	CALIFORNIA SCREW PRO	82507		

  
\_\_\_\_\_  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

## CALIFORNIA SCREW PRODUCTS CORP.

CAGE NUMBER : 14957 GWENCHRIS COURT

PARAMOUNT, CALIF. 90723-3423

Job Number : 323300

Airbus UK Approval No. AUK/SA/30144

BAE/AG/30235 / MAA

## TEST REPORT

Part Number : AN4-42A  
 Customer : B/E AEROSPACE CONSUMABLE MANAGEMENT  
 Procurement Spec. : NASM6812 REV. 2  
 Surface Finish Spec : AMS-QQ-P-416 REV. C  
 Heat Treat Spec : AMS2759/1 REV. E  
 Mgmtc Permeability : N/A

Part Standard : NASM3-20 REV. 2  
 Cust. Purchase Order Number : OYN947  
 Thread Size & Form : .250-28 UNF-3A  
 Thread Spec : MIL-S-7742 REV. D  
 Sample Size Spec. : NASM6812 REV. 2

Shipped Quantity\* : 5556  
 Mfg Quantity : 6000  
 Matl Spec : AMS 6322 REV. N  
 Item Description : Bolt  
 Heat Number : 10073780

\* Actual piece count is within +/- 2% of the shown lot quantity.

CONFORMS TO REQUIREMENTS OF AN3 THRU AN38 REV. 12  
 NON-DESTRUCTIVE TESTS / SUBCONTRACTED (SEE CERTIFICATION)

Sample Size : 32 specimens Inspection Results : Accept : 32 Reject : 0 specimens  
 Magnetic Particle : ASTM E1444-05 Fluorescent Penet. : N/A

## METALLURGICAL EXAMINATION RESULTS

Sample Size : 5 specimens Accept : 5 Reject : 0 Lab Mount No. : 41324  
 GRAIN SIZE : N/A HEAD STRUCTURE : Accept LAPS : Accept MICRO STRUCTURE : Accept  
 FILLET COLD WORKED : Accept DECARB : Accept SEAMS : Accept CARBURIZED : Accept  
 GRAIN FLOW HEAD : Accept GRAIN FLOW THREAD : Accept CRACKS : Accept THREAD RUN OUT : Accept

## MECHANICAL TESTS RESULTS

ULTIMATE TENSILE STRENGTH (lbs.) - Loc. of Failure: Threads Minimum Req. : 4080  
 Sample Size : 5 specimens Accept : 5 Reject : 0 Maximum Req. : 0

1. 5516	2. 5699	3. 5494	4. 5614	5. 5495	6. N/A	7. N/A	8. N/A
9. N/A	10. N/A	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

SHEAR (lbs.) S/D : SINGLE Sample Size : 5 specimens Accept : 5 Reject : 0 Minimum Req. : 3680

1. 4606	2. 4316	3. 4403	4. 4376	5. 4419	6. N/A	7. N/A	8. N/A
9. N/A	10. N/A	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

HARDNESS TEST Sample Size : 8 Hardness Req. RC : 26-32 Hardness Results : 28-30

STRESS RUPTURE TEST - N/A Load (Lbs.) : 0 Temperature (F) : 0 Periodic test, REF Job No.  
 Sample Size : 0 Hours : 0

FATIGUE TEST - N/A Cycles : 0 Min Req. : 0  
 Sample Size : 0 Low Load (lbs.) : 0 High Load (lbs.) : 0

TORQUE TEST - N/A Sample Size : 0 Load (Lbs/in) : 0

DFARS 252.225-7014 ALT. 1  
 COMPLIANCE

STRESS DURABILITY TEST - N/A Sample Size : 0 LOAD (Lbs.) : 0 Hours : 0

## STATEMENT OF CONFORMANCE:

This report relates only to items inspected/tested. Deviations from standard test methods, if any, are noted, and results from subcontracted inspection or testing, if any, are identified. All items were manufactured in the USA under a quality management system, which complies with ISO 9001 and with AS 9100. CALIFORNIA SCREW PRODUCTS CORP, hereby states: That the above product is mercury free; that the above listed lot has been produced, sampled, tested, inspected and marked in accordance with all requirements and that the product complies with all specification and contract requirements; that evidence of which is in the files of our company subject to examination. This report shall not be reproduced except in full, unless authorized in writing by CALIFORNIA SCREW PRODUCTS CORPORATION.

MARIAELENA  
 TORRES

Honeywell Source Accepted:

Stamp Impression

Date SEP 16 2011

RMRA. #



FINAL INSPECTOR

SEP 16 2011

(Name, Signature, Stamp and Date)



## CERTIFICATION

Southwest Plating Company, LLC

1344 W. Slauson Ave.  
Los Angeles, CA 90044-2824  
Telephone (323) 753 - 3781  
Fax (323) 753 - 9472



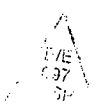
DATE	INVOICE #
9/14/2011	V 127598

<b>BILL TO</b>
CA Screw Products Corp P.O. Box 228 Paramount, Ca. 90723

<b>SHIP TO</b>
CA Screw Products Corp 14957 Gwen Chris Ave. Paramount, Ca. 90723

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
114807	Net 30		9/14/2011			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
	# OF PIECES	6000	0.00	0.00
	PART NUMBER	AN4-42A REV.N/A NASM3-20 REV.2	0.00	0.00
	PANS	6	0.00	0.00
	JOB NUMBER	323300	0.00	0.00
	POUNDS	400	0.00	0.00
	MATERIAL	8740	0.00	0.00
	THICKNESS	.00035-.00045	0.00	0.00
	41	CAD-PLATE TYPE 11 CL 2 PER AMS-QQ-P-416C	0.00	0.00
		.250-28 UNF-3A R/C 27-32 A/P .249-.246		
	CERT	WE HEREBY CERTIFY THAT THE PROCESSING AND INSPECTION PERFORMED ON PARTS BY THIS PURCHASE ORDER ARE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND CUSTOMER DRAWINGS.	0.00	0.00
	SIGN 1	SIGNED  TOM BRAGANTINO, OWNER	0.00	0.00
		DATE 09/14/2011		
		SIKORSKY 1758 DQR MAR 25 2012		
		 MAR 24 2012		
				
Claims must be made within 5 days of receipt of goods. No returns accepted without our approval.			<b>Total</b>	\$0.00

# Certification

**Tri-J Heat Treating**

327 E Commercial St,  
Pomona CA 91767

Phone: 909-622-9999 Fax: 909-622-1790

Order No.: 22351

Date: 08/12/2011

Entry Date: 08/16/2011

Page: 1

**To:** CALIFORNIA SCREW PRODUCTS COR  
P.O.Box 228

PARAMOUNT CA 90723

Phone: 562-633-6626

Purchase Order No.: 114041

Job#: 323300

Material: 8740

We are pleased to provide you with the following Certification

Quantity	Part Number / Part Name / Part Description	Pounds
6,000	AN4-42A REV NA, NASM3-20 REV 2	400

Heat Treat AMS 2759 / 1 REV E

Harden to specific hardness

Insp. Type	Scale	Minimum	Maximum	Results:	Scale	Minimum	Maximum	Value
Customer Requirements:								
Hardness	HRC	27.0	32.0	Hardness	HRC	28.0	30.0	6.0

## Process Steps

**Step: 1 Process: Heat Treat**

Treat at 1575 F, Dew point 50, Oil Quench at 130 F.(1 Hr Min)

**Step: 2 Process: Temper**

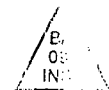
Temper at 1100 F, 1 Hr for each 400 Lbs. MIN 2 HRS

SIKORSKY  
1758  
DQR



MAR 25 2012

MAR 24 2012



ISO 9001:2008 REGISTERED

  
Gary Madrigal  
QC Manager  
Tri-J Heat Treating



**WireTech, Inc.**

6440 E. Canning Street  
Los Angeles, CA 90040  
Phone (323) 722-4833  
Fax (323) 721-2738

SOLD TO

Cal Screw Products  
14957 Gwenshris Ct.  
Paramount, CA 90723  
USA

WORK ORDER  
083494

# CERTIFICATION

HEAT NO. 10073780  
SALES ORDER / RLS 839640 / 1  
ISO 9001-2000 REGISTERED



MECHANICAL TESTING  
CERT # 911.01

CERT# 911.01

J/N 323300

CUSTOMER P.O. 111282	CUSTOMER PART h1196	QUANTITY 2,583 Lbs	CARRIERS 2	LADING NO 00090289	SHIPMENT DATE 06/02/2011			
SPECIFICATION C048740-102455A A-8740, AQ, SKFG, CHO WIRE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.245/0.246 Specifications: AMS2301H, AMS6322N, MIL-S-6049A, AMEND. 1, H1196, AMS-S-6049-A								
CERTIFICATION REQUIREMENTS								
Chemical Properties								
C .41	Si .24	Mn .95	P .014	S .013	Cu .14	Ni .43	Cr .41	Mo .21
Physical Properties								
Grain Size Jominy 1	Jominy 2	Jominy 3	Inclusions Macro	Cleanliness	Mill Source	SILVERSKY 1758 JQR		
6 5=52	8=44	10=37	S2-R1-C2	GOOD	F&S=0	Charter		
Country of Origin						MAR 25 2012		
USA - DFAR Compliant								
Mechanical Properties								
TEST	UNITS	Results						
Tensile Strength	KSI	83.3						
Yield Strength	KSI	70.8						
% Elongation	%	29						
% Reduction of Area	%	71.6						
Rockwell Hardness B Scale	HRB (s)	86						

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IPI 140, inclusion rating per ASTM E 45, decarburization performed as per IPI 140. The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. \*Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

"LATEST REVISIONS OF ASTM"

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

Material is free of mercury, radium, or alpha contamination.



**WireTech, Inc.**

6440 E. Canning Street  
Los Angeles, CA 90040  
Phone (323) 722-4933  
Fax (323) 721-2738

SOLD TO

Cal Screw Products  
14957 Gwenchris Ct.  
Paramount, CA 90723  
USA

WORK ORDER  
**083494**

# CERTIFICATION

HEAT NO.  
**10073780**  
SALES ORDER / RLS  
**839640 / 1**  
ISO 9001-2000 REGISTERED



MECHANICAL TESTING  
CERT # 911.01

CERT# 911.01

J/N 323300

CUSTOMER P.O. <b>111282</b>	CUSTOMER PART <b>h1196</b>	QUANTITY <b>2,583 Lbs</b>	CARRIERS <b>2</b>	LADING NO <b>00090289</b>	SHIPMENT DATE <b>06/02/2011</b>			
<b>SPECIFICATION C048740-102455A</b> <b>A-8740, AQ, SKFG, CHQ WIRE, SAIP Zinc Phosphate, Lime &amp; Stearate Coating, Size:0.245/0.246 Specifications:</b> <b>AMS2301H, AMS6322N, MIL-S-6049A, AMEND. 1, H1196, AMS-S-6049-A</b>								
CERTIFICATION REQUIREMENTS								
Chemical Properties								
C .41	Si .24	Mn .95	P .014	S .013	Cu .14	Ni .43	Cr .41	Mo .21
Physical Properties								
Grain Size	Jominy 1	Jominy 2	Jominy 3	Inclusions Macro	Cleanliness	Mill Source		
6	5=52	8=44	10=37	S2-R1-C2	GOOD	F&S=0	Charter	
Country of Origin								
USA - DFAR Compliant								
Mechanical Properties								
TEST	UNITS					Results		
Tensile Strength	KSI					83.3		
Yield Strength	KSI					70.8		
% Elongation	%					29		
% Reduction of Area	%					71.6		
Rockwell Hardness B Scale	HRB (s)					86		

**RMIR 8573**  
**JOSE ERVANTES**  
**6.3.2011**  
**DFARS 252.225-7014 ALT. 1 COMPLIANCE**

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140.

The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. \*Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)

"LATEST REVISIONS OF ASTM"

Material is free of mercury, radium, or alpha contamination.



# CHARTER STEEL

A Division of  
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road  
Saukville, Wisconsin 53080  
(262) 268-2400  
1-800-437-8789  
FAX (262) 268-2570

## CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Wiretech Incorporated  
6440 East Canning Street  
Los Angeles, CA-90040  
Kind Attn : Cert To Contact

J/N 323300

Cust P.O.	6513-3
Customer Part #	8740C1A080-C-R
Charter Sales Order	70011147
Heat #	10073780
Ship Lot #	4026728
Grade	8740 R SK FG AQ 21/64
Process	HRSA
Finish Size	21/64

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Lab Code: 7388		Test Results of Heat Lot# 10073780											
CHEM	%Wt	C	MN	P	S	SI	NI	CR	MO	CU	SN	V	
		.41	.95	.014	.013	.24	.43	.41	.21	.14	.008	.001	
		AL	N	B	TI	NB							
		.027	.0070	.0001	.002	.002							
JOMINY(HRC)		JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM11	JOM12
		57	57	56	55	52	51	47	44	39	37	37	35
		JOM13	JOM14	JOM15	JOM16	JOM18	JOM20	JOM22	JOM24	JOM26	JOM28	JOM30	JOM32
		35	34	33	32	31	31	30	29	29	29	29	28

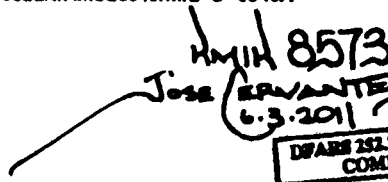
JOMINY SAMPLE TYPE ENGLISH = B JOMINY LAB = 0358-01  
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1  
AMS 2301 FREQUENCY AVERAGE = .03 AMS 2301 FREQUENCY INDIVIDUAL = .06  
AMS 2301 SEVERITY AVERAGE = .02 AMS 2301 SEVERITY INDIVIDUAL = .03  
CHEM. DEVIATION EXT. - GREEN =

REDUCTION RATIO = 358:1		Test Results of Rolling Lot# 1013507					
		Test Results of Processing Lot# 4026661, 4026728					
	# of Tests	Min Value	Max Value	Mean Value			
TENSILE	2.0	83.9	83.9	83.9		TENSILE LAB = 0358-02	
REDUCTION OF AREA	2	63	66	65		RA LAB = 0358-02	
ROCKWELL B	2	80	81	81		RB LAB = 0358-02	

NUM DECARB = 3 FREE FERRITE DECARB = .000 FREE FERR & PARTIAL DECARB = .001  
CP SPHERO % LAB = 0358-02 NUM SPHERO = 3 SPHERODIZATION = 83.3

Specifications: Manufactured per Charter Steel Quality Manual Rev 9,08-01-09  
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:  
Customer Document = COP 3010 Revision = M Dated = 12-MAR-03


Additional Comments: MEETS REQUIREMENTS OF SPECIFICATIONS AMS8322N/AMS2301J/MIL-S-6049A


  
 Jose 8573  
 6.3.2011  
 COMPLIANCE

Charter Steel  
Saukville, WI, USA



Page 1 of 1

  
 Janice Barnard  
 Manager of Quality Assurance  
 07/15/2010

Rem: Load1, Fax0, Mail0

J/N 323300

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

Certificate Number	Lab Code	Laboratory		Address
0358-01	7388	CSSM	Charter Steel Melting Division	1653 Cold Springs Road, Saukville, WI 53080
0358-02	8171	CSSR/CSSP	Charter Steel Rolling/Processing Division	1658 Cold Springs Road, Saukville, WI 53080
0358-03	123633	CSFP	Charter Steel Ohio Processing Division	6255 US Highway 23, Risingsun, OH 43457
0358-04	125544	CSCM/CSCR	Charter Steel Cleveland	4300 E. 49th St., Cuyahoga Heights, OH 44125-1004
.	.	--	Subcontracted test performed by laboratory not in Charter Steel system	

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

Test	Possible Laboratory	Specification
Chemistry Analysis	CSSM, CSCM/CSCR	ASTM E415; ASTM E1019
X-ray Fluorescence Stainless and Alloy Steel	CSCM/CSCR	ASTM E572
Macroetch	CSSM, CSCM/CSCR	ASTM E381
Hardenability (Jominy)	CSSM, CSCM/CSCR	ASTM A255; SAE J406; JIS G0561
Grain Size	CSSM	ASTM E112
Tensile Test	CSSR/CSSP, CSFP, CSCM/CSCR	ASTM E8; ASTM A370
Rockwell Hardness	All labs	ASTM E18; ASTM A370
Microstructure (spheroidization)	CSSR/CSSP, CSFP	ASTM A892
Inclusion Content (Methods A, E)	CSSR/CSSP, CSCM/CSCR	ASTM E45

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/11.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
  - It may be distributed only to their customers
  - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



Handwritten signature: Jose Cervantes  
 Handwritten number: 8573  
 Handwritten date: 6-3-2011  
 Stamp: DFARS 252.215-7014 ALT. 1 COMPLIANCE



# Certification

## Tri-J Heat Treating

327 E Commercial St,  
Pomona CA 91767  
Phone: 909-622-9999 Fax: 909-622-1790

Order No.: 22351

Date: 08/12/2011

Entry Date: 08/10/2011

Page: 1

**To:** CALIFORNIA SCREW PRODUCTS COR  
P.O.Box 228

PARAMOUNT CA 90723

Phone: 562-633-6626

Purchase Order No.: 114041

Job#: 323300

Material: 8740

We are pleased to provide you with the following Certification

Quantity	Part Number / Part Name / Part Description	Pounds
6,000	AN4-42A REV NA , NASM3-20 REV 2	400

Heat Treat AMS 2759 / 1 REV E

Harden to specific hardness

Insp. Type	Scale	Minimum	Maximum	Scale	Minimum	Maximum	Value
<b>Customer Requirements:</b>				<b>Results:</b>			
Hardness	HRC	27.0	32.0	Hardness	HRC	28.0	30.0
							6.0

### Process Steps

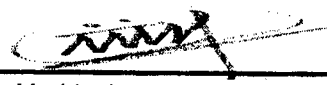
**Step: 1 Process: Heat Treat**

Treat at 1575 F, Dew point 50, Oil Quench at 130 F.(1 Hr Min)

**Step: 2 Process: Temper**

Temper at 1100 F, 1 Hr for each 400 Lbs. MIN 2 HRS

ISO 9001:2008 REGISTERED

  
Gary Madrigal  
QC Manager  
Tri-J Heat Treating

# Southwest Plating Company, LLC

1344 W. Slauson Ave.  
Los Angeles, CA 90044-2824  
Telephone (323) 753 - 3781  
Fax (323) 753 - 9472

## CERTIFICATION

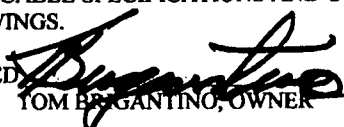
DATE	INVOICE #
9/14/2011	127598

<b>BILL TO</b>
CA Screw Products Corp P.O. Box 228 Paramount, Ca. 90723

<b>SHIP TO</b>
CA Screw Products Corp 14957 Gwen Chris Ave. Paramount, Ca. 90723

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
114807	Net 30		9/14/2011			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
	# OF PIECES	6000	0.00	0.00
	PART NUMBER	AN4-42A REV.N/A NASM3-20 REV.2	0.00	0.00
	PANS	6	0.00	0.00
	JOB NUMBER	323300	0.00	0.00
	POUNDS	400	0.00	0.00
	MATERIAL	8740	0.00	0.00
	THICKNESS	.00035-.00045	0.00	0.00
	41	CAD PLATE TYPE 11 CL 2 PER AMS-QQ-P-416C	0.00	0.00
		.250-28 UNF-3A R/C 27-32 A/P .249-.246		
	CERT	WE HEREBY CERTIFY THAT THE PROCESSING AND INSPECTION PERFORMED ON PARTS BY THIS PURCHASE ORDER ARE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND CUSTOMER DRAWINGS.	0.00	0.00
	SIGN I	SIGNED  TOM BRAGANTINO, OWNER	0.00	0.00
		DATE 09/14/2011		

Claims must be made within 5 days of receipt of goods. No returns accepted without our approval.			<b>Total</b>	\$0.00
--	--	--	--------------	--------



Toll Free: (888) 339-8472  
Phone: (310) 325-7620  
Fax: (310) 325-9655

# Hadd-Co. Inspection Lab.

2420 Amsler Street, Torrance, California 90505  
www.Hadd-Co.net E-Mail: haddco@earthlink.net

No. 4913



9/16/2011

TO:

CALIFORNIA SCREW PRODUCTS, INC.  
14957 GWENCHRIS CT  
PARAMOUNT, CA 90723

DATE :

P.O. NO.:

JOB / LOT NO.:

114917

323300

QUANTITY	PART NUMBER	DESCRIPTION
32	AN4-42A REV. N/A NASM3-20 REV. 2	BOLT  MPI PER ASTM E1444-05 NASM6812-2 MAT: 8740 PLATED 32 PC SAMPLE OF 6000 PC LOT

100%

INSPECTION

Magnetic

Penetrant

NO REJECTS

Qty Rejects

This is to certify that parts under subject purchase order  
have been ☐ Fluorescent Penetrant / ☒ Magnetically inspected  
in accordance with applicable and / or purchase order  
requirements.



STEPHANIE GARFIELD LEVEL II

INSPECTOR

**Note: Altering of this certification renders it void.**



# CHARTER STEEL

A Division of  
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road  
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

## CHARTER STEEL TEST REPORT

Reverse Has Text And Codes

Wiretech Incorporated  
6440 East Canning Street  
Los Angeles, CA-90040  
Kind Attn : Cert To Contact

*J/N 323300*

Customer P.O.	6513-3
Customer Part #	8740C1A080-C-R
Charter Sales Order	70011147
Heat #	10073780
Ship Lot #	4026728
Grade	✓ 8740 R SK FG AQ 21/64
Process	HRSA
Finish Size	21/64

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Lab Code: 7388												Test Results of Heat Lot# 10073780											
CHEM																							
%Wt												C	MN	P	S	SI	NI	CR	MO	CU	SN	V	
												.41	.95	.014	.013	.24	.43	.41	.21	.14	.008	.001	
												AL	N	B	TI	NB							
												.027	.0070	.0001	.002	.002							
JOMINY(HRC)												JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM11	JOM12
												57	57	56	55	52	51	47	44	39	37	37	35
												JOM13	JOM14	JOM15	JOM16	JOM18	JOM20	JOM22	JOM24	JOM26	JOM28	JOM30	JOM32
												35	34	33	32	31	31	30	29	29	29	29	28

JOMINY SAMPLE TYPE ENGLISH = B JOMINY LAB = 0358-01  
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1  
AMS 2301 FREQUENCY AVERAGE = .03 AMS 2301 FREQUENCY INDIVIDUAL = .06  
AMS 2301 SEVERITY AVERAGE = .02 AMS 2301 SEVERITY INDIVIDUAL = .03  
CHEM. DEVIATION EXT. - GREEN =

SKORISKY  
1758  
DOR  
MAR 25 2012

REDUCTION RATIO = 358:1					
Test Results of Rolling Lot# 1013507					
Test Results of Processing Lot# 4026881, 4026728					
	# of Tests	Min Value	Max Value	Mean Value	
TENSILE	2.0	83.9	83.9	83.9	TENSILE LAB = 0358-02
REDUCTION OF AREA	2	63	66	65	RA LAB = 0358-02
ROCKWELL B	2	80	81	81	RB LAB = 0358-02

NUM DECARB = 3 FREE FERRITE DECARB = .000 FREE FERR & PARTIAL DECARB = .001  
CP SPHERO % LAB = 0358-02 NUM SPHERO = 3 SPHERODIZATION = 83.3

Specifications: Manufactured per Charter Steel Quality Manual Rev 9.08-01-08  
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:  
Customer Document = COP 3010 Revision = M Dated = 12-MAR-03

Additional Comments: MEETS REQUIREMENTS OF SPECIFICATIONS AMS4322N/AMS2301J/MIL-S-8049A

RIC  
123  
INSP  
MAR 24 2012



*Handwritten: 8573*  
*Handwritten: J. 8573*  
*Handwritten: 6.3.2011*  
DFAIR 282,285-7014 A.L.T. 1  
COMPLIANCE

Charter Steel  
Saukville, WI, USA



*Handwritten: Janice Barnard*  
Janice Barnard  
Manager of Quality Assurance  
07/15/2010

Rem: Load1,Fax0,Mail0



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: P027096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
8	30	EA	AN4-45A		12976	AIRFASCO INDUSTRIES	3Z958		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFG DATE	EXP DATE
4	400	EA	AN3C4A		68523	MAC FASTENERS	0RPT4		

  
Jason Lewis

Senior Director, Global Quality

01/19/15

Inv # 01/19/15

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0RFA79

PART NUMBER: AN3C4A

REV: 2

LOT NUMBER: 68523

MANUFACTURED QUANTITY: 60,000

MILL HEAT NUMBER: 568732

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 02/25/14

  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
12	200	EA	AN4C6A		68619	MAC FASTENERS	0RPT4		

  
Jason Lewis

Senior Director, Global Quality

01/19/15

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0RAE84

PART NUMBER: AN4C6A

REV: 3

LOT NUMBER: 68619

MANUFACTURED QUANTITY: 43,000

MILL HEAT NUMBER: 571573

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number  
do not contain Mercury or Mercury compounds, and were  
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC  
FASTENERS within the United States, and were processed in accordance with all applicable drawings and  
specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 10/31/14

  
QUALITY ASSURANCE REPRESENTATIVE

**MAC FASTENERS, INC.**  
**1110 EAST ENTERPRISE**  
**OTTAWA, KS 66067**

# CHEMICAL & PHYSICAL TEST REPORT

<b>CUSTOMER</b> B/E AEROSPACE	<b>PO NUMBER</b> 0RAE84	<b>MFG QUANTITY</b> 43,000	<b>DATE</b> 10/31/14
<b>PART NUMBER</b> AN4C6A	<b>REV</b> 3	<b>LOT NO</b> 68619	<b>PROCUREMENT SPEC</b> NASM6812

<b>MATERIAL</b> TYPE 431				<b>MATERIAL SPECIFICATION</b> ASTM A493				<b>MILL HEAT NUMBER</b> 571573			<b>SUPPLIER</b> CARPENTER		
C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	B	Fe	Al	Ti
.16	.53	.63	.016	.002		1.55	16.1						
	Co	N	Bi	Pb	Mg	Zn		Nb	Sn			Other	

## MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
6,430	
6,450	
6,360	
6,490	
6,300	
MIN. REQ.	4,080

DOUBLE SHEAR STRENGTH POUNDS / PSI	
TOO SHORT TO TEST PER NASM1312-13	
MIN. REQ.	


HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	5
ACTUAL RESULTS	
29 - 31 HRC	

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3		System 21 <input type="checkbox"/>	System 22 <input checked="" type="checkbox"/> System 23 <input type="checkbox"/>

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input checked="" type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>
Fatigue Strength	<input type="checkbox"/>
Stress Durability Test NASM1312/5	<input type="checkbox"/>
Stress Rupture Test	<input type="checkbox"/>
Magnetic Permeability ASTM A342 Less than 2.0	<input type="checkbox"/>

## TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

  
Quality Assurance Representative





1 January 2015

This notice is to inform you that, as a result of the December 2014 spin-off from B/E Aerospace, Inc., the former Consumables Management segment of B/E Aerospace, Inc. is now **KLX Aerospace Solutions**, a division of KLX Inc.

**IMPORTANT:**

Please update your systems accordingly. We are **KLX Aerospace Solutions**, a division of KLX Inc.

**NO CHANGES TO:**

- CAGE Code
- Billing address, "Remit To" locations
- QMS and ERP System
- B/E phone numbers, addresses
- DUNS Number
- SITA address
- Your B/E contact(s)
- Pre-existing Purchase Orders in our system

**Effective January 1<sup>st</sup>, Changes Apply to:**

- "Remit To" and "Bill To" name
  - Name/logo on documents and forms
  - Orders submitted after January 1<sup>st</sup>
  - US Tax ID Number
  - B/E CM Email Addresses
  - VAT Registrations - posted at [www.KLXaerospace.com](http://www.KLXaerospace.com) under "News & Events"
- KLX Inc.  
KLX Inc. \*\*  
KLX Inc.  
#47-1639172  
[firstname.lastname@KLX.com](mailto:firstname.lastname@KLX.com)

**\*\*Note:** our legal name is KLX Inc. Our business segment is known as KLX Aerospace Solutions.

Read more about the spin-off from B/E Aerospace, Inc. and the related name change at [www.KLX.com](http://www.KLX.com).

**Exceptions:**

- While our Interturbine business was included in the spin-off from B/E Aerospace, Inc., it is not impacted by the above changes. Rather, it will be transitioned according to a regionally-phased integration plan occurring throughout 2015.
- Our CMP Senlis, France business was also included in the spin-off from B/E Aerospace, Inc., but it will continue to do business as CMP SAS as a subsidiary of KLX Inc.

A handwritten signature in black ink, appearing to be "A. B.", is written over a horizontal line.

Group Vice President and General Manager  
KLX Aerospace Solutions, a division of KLX Inc.



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com  
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001  
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York  
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER  
**HYONXY**

PAGE 1

SOLD TO:  
002409

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7



SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY, ON  
CANADA K6A 1K7

ORDER NO. PO27096		DATE 01/19/15	SHIP VIA FEDX INTL P1 COLL		TERMS NET 45		SHIPPING TERMS FOB-WICHITA		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
9	10	AN4-55A Description BOLT ECCN :9A991 MFR: AIRFASCO INDUSTRIES CTRL#: 2008D08455 LOT#: 14584 LOT QTY: 10 Country of Origin USA  <i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i>			9.950	EA	0	10	99.50
***CONTINUED***									
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.									

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10900 E 26TH ST N., WICHITA, KS 67226

**MATERIAL CERTIFICATION:** KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

**PACKING SLIP**

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:  
<http://www.KLXAerospace.com/conditions-sale/>

*[Signature]*  
Vice President of Quality



**AIRFASCO**  
**INDUSTRIES**  
MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

## CERTIFICATE OF CONFORMANCE

### HONEYWELL

I hereby certify that on 4/14/2008 AIRFASCO Industries provided the supplies called for by Contract/ PO Number 0895078 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States.

  
WM. DENT

Quality Assurance Representative

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN4-55A	14584	250			

C1F3-0



mcc



# AIRFASCO

## INDUSTRIES

MANUFACTURER OF AEROSPACE PRODUCTS

2655 HARRISON AVE. SW  
CANTON, OH 44706  
PHONE: (330)430-6190  
FAX: (330)430-6199

### PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 08/16/07

PART NO.: AN4-55A per NASM4-55A rev. 1

AFC LOT NO.: 14584

QTY MFG.: 21,185

PROCUREMENT SPECIFICATION: Produced per NASM 6812 rev. 2

### HEAT TREAT

VENDOR: Brite Metal

CERTIFICATION NO.: B-135493

PROCUREMENT SPECIFICATION: Heat Treat per MIL-H-6875 H

### PLATING

VENDOR: Beringer Plating

CERTIFICATION NO.: 45453

PROCUREMENT SPECIFICATION: Cadmium Plate per QQ-P-416, Type II, Class 2, F

### MATERIAL

MILL: Charter

COUNTRY OF MELT: USA

HEAT: 8K0318

GRADE SPECIFICATION: Alloy Steel per AMS 6300 C, Type 4037, .313"

### 4037 MATERIAL CHEMISTRY

ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.380	.840	.008	.002	.210	.070	.080	.260	.040	.058	

### PHYSICAL PROPERTIES

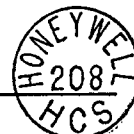
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	4,080 lbs.	3,130 lbs.	3,680 lbs.	HRC 26-32
ACTUAL	5,320 lbs.	4,784 lbs.	4,246 lbs.	HRC 28-30

Non-Destructive Magnetic Particle per ASTM-E-1444-01

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

Airfasco Industries  
Quality Assurance Representative:

Wm. Dent




WTR



**AIRFASCO**  
**INDUSTRIES**  
MANUFACTURER OF AEROSPACE PRODUCTS

**ROUTINE SAMPLE  
INSPECTION REPORT**

**No 6724**

FIRST PRODUCTION RUN <input type="checkbox"/>	FIRST PRODUCTION RUN AFTER REJECTION <input type="checkbox"/>	SCHEDULED <input checked="" type="checkbox"/>	SPECIAL <input type="checkbox"/>	PART NO. <b>AN 4-55A</b>			
SAMPLE DESCRIPTION AND HEAD MARKING 		AFC LOT NO. <b>14584</b>	PART NAME <b>MACHINE BOLT</b>				
		SEMI-FINISHED <input type="checkbox"/>	FINISHED <input checked="" type="checkbox"/>	SAMPLES MADE TO B/P DATED <b>REV (1) 31 JAN 2007</b> DATE <b>4/14/08</b>			
CHARACTERISTICS	MAX	MIN	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
PITCH DIA	2268	2243	2257 / 2254	2258 / 2256	2253 / 2247	2260 / 2255	2252 / 2246
MAJOR DIA	2500	2435	2477 / 2460	2472 / 2456	2474 / 2460	2470 / 2455	2477 / 2458
BODY DIA	2490	2460	2484 / 2468	2483 / 2468	2482 / 2466	2484 / 2466	2482 / 2465
ACROSS FLATS	440	428	431 / 430	432 / 430	432 / 430	431 / 430	432 / 430
HEAD THICK	172	140	163 / 161	162 / 160	162 / 159	164 / 161	165 / 163
GRIP LGTH	5.202	5.172	5.188	5.188	5.188	5.188	5.188
O/A LGTH	5.687	5.641	5.663	5.670	5.666	5.666	5.665
INSP'D BY <b>RYAN SELDEN</b> DATE INSP'D <b>14 APR 2008</b> APPROVED <input checked="" type="checkbox"/> REJECTED <input type="checkbox"/> QUAL. CONT. SIG. <b>Ryan S Selden</b> DATE <b>4/14/08</b>							

AIRFASCO QUAL. CONT. 1002-1



MTR

# Airfasco Industries, Inc.

2655 Harrison Ave SW  
Canton, OH 44706  
Ph: 330-430-6190, Fax: 330-430-6199,

## Packing Slip

Original

Invoice #: 107299  
Invoice Date: 4/15/2008  
Time: 7:29:17 AM  
Page: 1

**To:**  
HONEYWELL  
PO BOX 981157  
EL PASO, TX 79998  
Ph: 602-365-7781 Fax: 602-365-7989

**Ship To:**  
HONEYWELL  
150055796  
CONSUMABLES SOLUTIONS  
700 HENRIETTA CREEK ROAD  
ROANOKE, TX 76262-6398

Cust. PO#: 0895078

Terms: NET 30

Ship Via: UPS FREIGHT COLL Ship Via Acc: 9AV627

Order Date: 4/6/2008

# of Items: 1

# of Boxes: 1

Weight: 23

Prepared By:

Sales Order: 89510

Ship Log #: 1

Ship Order:

Customer #: 19589

VAT #:

Cust VAT #:

Ship Date: 4/15/2008

Buyer: NO BOX OVER 35#

FOB:

AWB:

Shipment:

Item	Part Number/Description	Shipped	BackOrd	CD		Unit Price	UOM	Total Amt
1	AN4-55A BOLT, AN Loc/Whse: AFC Control #: 130547-1 L-14584 TEST REPORT L-14584	250	0	NE			EA	

C OF C ENCLOSED  
1 BOX 23 LBS  
PARTS MADE IN USA  
THANK YOU!



PAC



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	50	EA	AN310-5		0503315-310	GREER STOP NUT / SPS 27687			

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

**GREER STOP NUT**

Greer Stop Nut  
481 McNally Drive  
Nashville, TN 37211

Phone: 615-832-8375  
Fax: 615-331-5070  
E-mail: greer@spstech.com

### CERTIFICATE OF CONFORMANCE

Date of Certification: February 3, 2014

Sold To: B/E Aerospace Consumables Management  
9835 NW 14th St  
Miami, FL  
33172

Purchase Order No: ORVV97

Customer Part No: AN310-5 Rev.10 & 1, NASM310 Rev.1

Item No: 001

Greer Part No: F22SC310-0524

Nomenclature: Nut, Plain, Castellated

Lot No/Serial No: 0503315-310

Qty. Manufactured: 54,800

Qty. Shipped: 52,196

Manufacturing Date: 12-18-13

Material: 1137

Material Specification: AMS 5024 H

Material Supplier: Nelsen Steel Company

Mill Heat No: 20216060-01

Greer Steel Date: CJ753J

Procurement Spec: FF-N-836E

Threads: MIL-S-7742 Rev. D Am.1

Proof Load: 6,500 lbs.

Tested To: 6,500 lbs.

Sample Size: 5

Non-Destructive Testing: Magnetic Particle

Specification: ASTM E-1444-11

Sample Size: 29

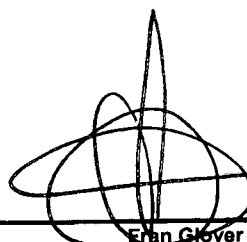
Magnetic Particle Inspection in accordance with MT2000 Rev. 14 DTD 5/31/12 as modified by MT69811 Rev. 6 DTD 8/28/13

Surface Finish: Cadmium & Yellow Chromate

Specification: AMS-QQ-P-416 Type II Class 2 Rev. C

The products identified on this certificate have been manufactured, tested and inspected in accordance with, and unless noted above, conforms in all respects to the applicable drawings, specifications and/or standards. Complete reports of physical and chemical tests are on file for on-site examination. If no specified customer quality level is required, goods conform to seller's quality level. Reproduction except in full is strictly prohibited without written approval of Greer Stop Nut. All damages exceeding price are excluded. Mercury free clause: We certify that no possibility exists for mercury contamination to occur during manufacture, assembly or testing of parts on this contract. This document relates only to the items tested. Parts were manufactured in the United States of America. Sample plans are carried out to current standard/specification revision.

G and Green Nylon are Trademarks of Greer Stop Nut

  
Fran Glover  
Quality Assurance Coordinator





Nelsen Steel Company  
9400 W. Belmont Ave.  
Franklin Park, IL 60131-2898  
Tel: (847) 671-9700 Fax: (847) 671-6833

SOLD TO  
Greer Stop Nut Inc.  
481 Mc Nally Drive  
Nashville, TN 37211  
USA

RECEIVED  
CJ 7535

K.S. 11/14/12

## PRODUCT CERTIFICATION

HEAT-LOT NUMBER WORK ORDER  
**20216060-01 350899**

SUPPLIER SALES ORDER / RLS  
**Charter Steel 100711 / 1**

MELT SOURCE/NAFTA

**Charter Steel / Yes**

COUNTRY OF ORIGIN

**U.S.A.**

CAST METHOD

**Strand (Billet)**

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	COILS	LADING NO	SHIPMENT DATE
0012177276	0r23050	10,400 LBS	3	00049843	11/12/2012

SPECIFICATION **C04960H1137**

.4960, Shape = Cold Drawn Hexagon, Grade = 1137, Length = 12' R, Grain Prac = Coarse Grain Practice, Silicon = .10 MAX, Restrictd Chemistry = Charter Steel Only, Quality Level = STD, Testing = Mag Tested, Mechanical Tests, AMS 5024 Chem & Mech Only, Bundle max = 4000 lbs. Min. Red. Ratio 68:1

### CERTIFICATION REQUIREMENTS

AMS 5024H Chem and Mech. Only

### Chemical

C	Mn	P	S	Si	Cu	Ni	Mo	Cr	Al
.39	1.41	.008	.111	.08	.12	.05	.01	.08	.001
	Cb		V						
	.001		.001						

### Mechanical

TEST	UNITS	HIGH	LOW	AVERAGE
Tensile	PSI	142000	142000	142000
Yield Strength	PSI	116000	116000	116000
Elongation in 2"	%	11	11	11
Reduction of Area	%	43	43	43
Brinell Hardness	Brin Hds	253	253	253

We certify that the above material during its processing or while in our possession was not exposed to mercury or any other metal alloy that is liquid at ambient temperature, that no welding or weld repair was performed on said material, that no Class I or Class II ozone depleting chemicals (ODC's) were used in the manufacture of said material or in any of its components or packaging, and that the finished product described herein was manufactured by Nelsen Steel and Wire L.P. and/or its agents in the United States of America. We further certify that all material cold drawn by Nelsen Steel and Wire L.P. meets or exceeds the requirements of ASTM A108-07 (Level 1) and/or SAE J403 for carbon steels and/or SAE J404 for alloy steels and their referenced documents (including ASTM A29-11a and ASTM A576-90b, 2006) as a minimum. Also, all chemical and mechanical testing is performed by laboratories that have received or have applied for certification to ISO/IEC 17025-1999. Nelsen Steel's Quality Management System is registered to ISO 9001: 2008 via third party assessment. Manufactured in the United States of America.

End of Certification

We certify that the above metallurgical report of chemical analysis and/or mechanical properties is a true and correct statement of the information relating to the product(s) listed above and conforms to the applicable specifications as indicated on your order. WE FURTHER CERTIFY that the material described herein was monitored and controlled during manufacture in accordance with the "Nelsen Steel Company Quality Assurance Manual" in its most recent revision prior to the issuing date shown.

Certification given and subscribed

by:

Kenneth A. Koepl, Quality Manager



**CHARTER  
STEEL**

A Division of  
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road  
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

**CHARTER STEEL TEST REPORT**  
**Reverse Has Text And Codes**

**Nelsen Steel Co.**  
**9400 Belmont Ave.**  
**Franklin Park, IL-60131**  
**Kind Attn :Ken Koepl**

Cust.P.O.	56799
Customer Part #	H06250R11371
Charter Sales Order	70036439
Heat #	20216060
Ship Lot #	2037995
Grade	1137 R CGP CG FMQ 5/8
Process	HR
Finish Size	5/8

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Test Results of Heat Lot# 20216080											
Lab Code: 125544	C	MN	P	S	SI	NI	CR	MO	CU	SN	V
CHEM	.39	1.41	.008	.111	.080	.05	.08	.01	.12	.008	.001
%Wt											
	AL	N	B	TI	CA	NB	SB	AS	PB		
	.001	.0070	.0001	.001	.0015	.001	.002	.005	.002		
JOMINY(HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM12
	56	54	50	40	33	28	27	26	25	24	21
	JOM14	JOM16									
	21	20									

JOMINY SAMPLE TYPE ENGLISH = C DI = 1.73  
CHEM. DEVIATION EXT.-GREEN =

REDUCTION RATIO = 160:1

**Specifications:**

Manufactured per Charter Steel Quality Manual Rev 9,08-01-09  
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:  
Customer Document = 1137-512 Revision = 5 Dated = 08-AUG-11

**Additional Comments:**

Charter Steel  
Cuyahoga Heights, OH, USA

Rem: Load1,Fax0,Mail0



Page 1 of 1

This MTR supersedes all previously  
dated MTRs for this order

*Janice Barnard*  
Janice Barnard  
Manager of Quality Assurance  
10/26/2012



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

### Material Certification

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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
11	25	EA	AN4C11A		68533	MAC FASTENERS	0RFT4		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0REV54

PART NUMBER: AN4C11A

REV: 3

LOT NUMBER: 68533

MANUFACTURED QUANTITY: 24,000

MILL HEAT NUMBER: 571573

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is an AS9100C Registered Company - SAI GLOBAL - 0058029  
Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 09/26/14

  
QUALITY ASSURANCE REPRESENTATIVE

# DE TRAY Plating Works

Specialized Electro-Plating and Polishing  
Nickel  
Copper  
Decorative Chrome  
Satin Chrome  
Zinc  
Cadmium  
Passivate  
Bright Dip  
Strip Copper  
Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052  
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

Passivate Treatment per AMS2700 Method 1, Class 4

CUSTOMER: Mac Fasteners Lot#: 68533  
PART NUMBER: AN4C11A  
PROCUREMENT SPECIFICATION: n/a  
OTHER CONTRACTURAL REQUIREMENTS:  
MATERIAL: 431  
QUANTITY: 304 lbs  
INVOICE NUMBER: 183498

## Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with AMS2700 Method 1, Class 4 and part standard.

DE TRAY PLATING WORKS

NAME: 

JOB TITLE: VICE-PRESIDENT

DATE: 9/24/2014



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.525.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

### Material Certification

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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
16	10	EA	AN924-6J		5449A	INLAND MACHINE	6W617		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

**INLAND**  
**MACHINE COMPANY**

(909) 484-5579

FAX (909) 484-4825

10762 EDISON COURT

RANCHO CUCAMONGA, CA 91730

**Invoice**

**To:**  
M & M AEROSPACE HARDWARE, INC.  
P.O. BOX 025263  
MIAMI, FL 33102-5263

**Ship To:**  
M & M AEROSPACE HARDWARE, INC.  
10000 N.W. 15TH TERRACE  
MIAMI, FL 33172

Invoice Date: 6/5/2006      Terms: 2 % 10 NET 30      Weight:  
Order Date: 5/11/2006      Cust. PO#: OE4533      # of Boxes:  
Ship Date: 6/5/2006      FOB:      Shipment #: 1  
Sales Order: OE4533      Buyer:      Ship Via: FEDX GRD  
Customer #: MMAH1      Invoice #: 33014

Item	Part Number/Description	Shipped	BackOrd	CD	Unit Price	Total Amt
------	-------------------------	---------	---------	----	------------	-----------

1	AN924-6J NUT REV.11	5440	19560	NE		
	CERTS					
	JOB# 5449A					

PACKING LIST

THIS IS TO CERTIFY THAT ALL ARTICLES DELIVERED UNDER THIS  
SHIPPER, CONFORMS TO ALL APPLICABLE BLUE PRINT SPECIFICATION,  
AND EVIDENCE OF SUCH IS ON FILE SUBJECT TO EXAMINATION



It is agreed by buyer that upon delivery of parts, said will be inspected and that if any parts are defective buyer agrees to notify seller within ten (10) days  
limitation. Buyer agrees that it waives all rights to any damages and credits against any amount of invoice.



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMI CR-4  
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

### Material Certification

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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
15	6	EA	AN814-8D		00033227-35514	NELSON AEROSPCE/PERM	52930		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15



# PERMASWAGE

**PERMASWAGE - Nelson Aerospace**  
A Designed Metal Connections, Inc. Company  
14800 S. Figueroa St  
Gardena, CA 90248  
Ph: 310-323-6200  
Fax: 310-217-3192

Pack Slip: 60445

\*60445\*

Sales Order: 35118

\*35118-2-1\*

Page: 1 of 1

## Customer Packing Slip

**Ship To:**  
B/E AEROSPACE CONSUMABLES MANAGEM  
9835 NW 14TH ST  
MIAMI FL 33172  
USA

Verify AES requirements prior to shipment.

**Sold To:**  
B/E AEROSPACE CONSUMABLES MANAG  
10000 NW 15TH TERRACE  
MIAMI FL 33172-2756  
USA

Verify AES requirements prior to shipment.

Fax: 305-507-7192

**Ship Date:** 11/3/2014  
**Cust P.O.:** 0YRY80

**Ship Via:** FEDEX GROUND

**F.O.B.:** EX WORKS  
**Salesperson:** JIM THOMPSON

PO Line	Planned Qty	Shipped Qty	Part Number Description	Rev	Lot Number
FEDEX GRD # 0331-0149-0					
	743	743	AN814-8D PLUG	14	00033227-35514

Sale Order / Line / Release: 35118 / 2 / 1

Customer PO Number: 0YRY80

### Certificates Required:

Standard Certification: No  
Full Certifications: Yes

First Article Inspection: No  
Chemical/Physical: No

Material Certificate: No  
FAIR per AS9102: No

1 BOX - 10X10X10 - 10 LBS  
1 BOX - 12X12X12 - 21 LBS

AN, MS, AS, NAS and other industry standard parts controlled by ECCN 9A991 and HTS 8803.30.00.00  
Products listed have not been exposed to mercury or mercury compounds during the manufacturing process.

**!! MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY PERMASWAGE-NELSON AEROSPACE SALES @ 818-686-0900 !!**

WE HERBY CERTIFY THAT ALL PROVISIONS OF THE FAIR LABOR STANDARDS ACT ON 9/25/83 AS AMENDED HAVE BEEN FULLY COMPLIED WITH IN THE MANUFACTURE, PRODUCTION OR PURCHASE OF GOODS LISTED HEREON. ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE. ALL PAST DUE ACCOUNTS SHALL BEAR INTEREST AT THE RATE OF 1 1/2% PER MONTH (18% PER ANNUM).

### Certification of Conformance

NELSON AEROSPACE WARRANTS THAT THE ITEMS OF THIS SHIPPER WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM, ACCOMPANYING THE ITEMS OF THIS INVOICE, ARE IN CONFORMITY WITH CONTRACT REQUIREMENTS AND SPECIFICATIONS, GOVERNMENT OR OTHERWISE. NELSON AEROSPACE DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF THE FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF NELSON AEROSPACE IS EXPRESSLY LIMITED TO REPLACEMENT OF ANY ITEM WHICH IS REJECTED BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP. SUCH REPLACEMENT SHALL CONSTITUTE SATISFACTION OF ALL LIABILITY NELSON AEROSPACE MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE OR OTHERWISE, AND IN NO EVENT SHALL NELSON AEROSPACE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, NELSON AEROSPACE MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

Country of Origin: MADE IN THE USA

BY RECEIVING DELIVERY OF THE GOODS COVERED BY THIS PACKING SLIP BUYER EXPRESSLY ASSENTS TO THE TERMS AND CONDITIONS SET FORTH

*Ken Arant*

Manager of Quality Assurance or Designee

**BRALCO METALS****B I L L O F L A D I N G**

No: 43 116942

Ship From:

Ship Date 24Feb14 at 0:09 From FNO

Probill

Via

FOB

Frt OUR TRUCK

Route 1-304 Manifest

Vhcle Trailer

Slp KELLY QUAN

Sold To: (601010)

NELSON AEROSPACE, INC.

ATTN: ACCOUNTS PAYABLE

10310 NORRIS AVENUE

PACOIMA CA 91331

BRALCO METALS #43

15090 NORTHAM STREET

LA MIRADA, CA 90638

Tel: 714 736-4800 Fax: 714 736-4840

Ship To: ( 1)

NELSON AEROSPACE, INC.

10310 NORRIS AVE.

PACOIMA CA 91331

Tel: 818-686-0900 Fax: 818 686-0181

Con

Tel 818-686-0900 Fax 818 686-0181

**B I L L O F L A D I N G**

1) Our Order 43 -494471- 1 Your PO # 35514

Part #

Rel # ED

ALUMINUM HEXAGON 2024 T851

1" X 144.0000"

DOMESTIC - ONE HEAT ONLY

NA  
165

RM-001 APPLIES

	Heat Number	Tag No	Quantity	PCS	Wt LBS
596217	10046445	68102 ✓	360 FT	30	374
	Balance to Ship		0 PCS	0 FT	0 LBS

	Tags	PCS	LBS
TOTAL:	1 ✓	30 ✓	374 ✓

\*\*\*\*\*  
NO VALBRUNA MATERIAL 304L 3/4" HEX AND UNDER  
THEY DO NOT REPORT PHYSICALS TO AMS 5639 2/11TC  
\*\*\*\*\*

CUST SIGNATURE/MILL TR RECEIVED \_\_\_\_\_

DATE \_\_\_\_\_

Page: 1 ....Continued



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	50	EA	AN310-4		502115 26	GREER STOP NUT / SPS 27687			

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15



Greer Stop Nut, Inc.  
481 McNally Drive  
Nashville, TN 37211

Phone: 615-832-8375  
Fax: 615-331-0065  
E-mail: greer@spstech.com

## CERTIFICATE OF CONFORMANCE

Date of Certification: March 25, 2009

Sold To: M & M Aerospace Hardware, Inc.

10000 N. W. 15th Terrace

Miami, FL

33172

Purchase Order OHF249

Customer Part No: AN310-4 Rev. 10 & NASM310 Rev. NEW

Item No: 004

Greer Part No: F22SC310-0428

Nomenclature: Nut, Plain, Castellated

Lot No/Serial No: 502115 26

Qty. Manufactured: 58,198

Qty. Shipped: 57,562

Manufacturing Date: 3-25-09

Material: 1137

Material Specification: AMS 5024G ASTM A 108-07

Material Supplier: Nelsen Steel Company

Mill Heat No: 898387

Greer Control No: GCJ716T

Procurement Spec: FF-N-836E

Threads: MIL-S-7742 Rev. D Am. 1

Proof Load: 4,080 lbs.

Tested To: 4,080 lbs.

Sample Size: 5

Non-Destructive Testing: Magnetic Particle

Specification: ASTM E-1444-01

Sample Size: 29

Surface Finish: Cadmium & Yellow Chromate

Specification: QQ-P-416F Type II Class 2 Am. 3

The products identified on this certificate have been manufactured, tested and inspected in accordance with, and unless noted above, conforms in all respects to the applicable drawings, specifications and/or standards. Complete reports of physical and chemical tests are on file for on-site examination. If no specified customer quality level is required, goods conform to seller's quality level. Reproduction except in full is strictly prohibited without written approval of Greer Stop Nut. All damages exceeding price are excluded. Mercury free clause: We certify that no possibility exists for mercury contamination to occur during manufacture, assembly or testing of parts on this contract. This document relates only to the items tested. Parts were manufactured in the United States of America. Sample plans are carried out to current standard/specification revision.

G and Green Nylon are Trademarks of Greer Stop Nut, Inc.

*Janet M Calvin*  
(ss)

Janet M. Calvin  
Quality Assurance Manager



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

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**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
5	300	EA	AN4-15A		68551	MAC FASTENERS	ORFT4		

  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0RBJ63

PART NUMBER: AN4-15A

REV: 3

LOT NUMBER: 68551

MANUFACTURED QUANTITY: 84,000

MILL HEAT NUMBER: 8195136

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number  
do not contain Mercury or Mercury compounds, and were  
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is an AS9100C Registered Company- SAI GLOBAL - 0058029  
Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 05/08/14

  
QUALITY ASSURANCE REPRESENTATIVE

**MAC FASTENERS, INC.**  
**1110 EAST ENTERPRISE**  
**OTTAWA, KS 66067**

## CHEMICAL & PHYSICAL TEST REPORT

<b>CUSTOMER</b> B/E AEROSPACE	<b>PO NUMBER</b> 0RBJ63	<b>MFG QUANTITY</b> 84,000	<b>DATE</b> 05/08/14
<b>PART NUMBER</b> AN4-15A	<b>REV</b> 3	<b>LOT NO</b> 68551	<b>PROCUREMENT SPEC</b> NASM6812

<b>MATERIAL</b> TYPE 8740				<b>MATERIAL SPECIFICATION</b> MIL-S-6049/AMS6322				<b>MILL HEAT NUMBER</b> 8195136			<b>SUPPLIER</b> JOHNSTOWN		
C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	B	Fe	Al	Ti
.42	.25	.87	.010	.012	.07	.43	.50	.21	.003			.027	
	Co	N	Bi	Pb	Mg	Zn		Nb	Sn			Other	
		.0064							.004				

### MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
6,020	
6,070	
6,050	
6,100	
6,080	
MIN. REQ.	4,080

DOUBLE SHEAR STRENGTH POUNDS / PSI	
8,860	
8,980	
8,940	
8,910	
8,960	
MIN. REQ.	7,360

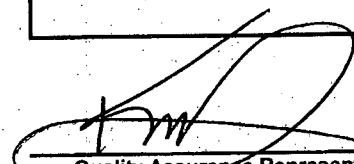
HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	5
ACTUAL RESULTS	
28 - 30 HRC	

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3		System <input type="checkbox"/> 21	System <input checked="" type="checkbox"/> 22
		System <input type="checkbox"/> 23	

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input checked="" type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Recess Torque Test	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>
Magnetic Permeability ASTM A342 less than 2.0	<input type="checkbox"/>

### TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

  
 Quality Assurance Representative

**AS9100C REGISTERED**  
**SAI GLOBAL - 0058029**

MAC FASTENERS, INC.  
1110 ENTERPRISE  
OTTAWA, KANSAS 66067

## HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 05/08/14

PO NUMBER: 0RBJ63

MANUFACTURED QUANTITY: 84,000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER: 68551

MATERIAL: TYPE 8740

PART NUMBER: AN4-15A

REVISION: 3

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 5

HARDNESS: 28 - 30 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

  
QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company - SAI GLOBAL - 0058029



# DE TRAY Plating Works

Specialized Electro-Plating and Polishing  
Nickel  
Copper  
Decorative Chrome  
Satin Chrome  
Zinc  
Cadmium  
Passivate  
Bright Dip  
Strip Copper  
Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052  
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

May 5, 2014

Mac Fasteners  
1110 East Enterprise Street  
Ottawa, Kansas 66067

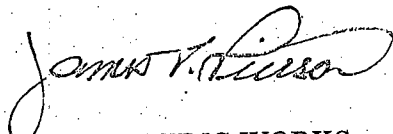
Subject: Certification

This is to certify that the following parts have been cadmium plated per QQ-P416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 2. Please reference our Invoice# 179319 dated 5/05/2014 for:

Lot#- 68551

P.N.- AN4-15A

James T. Pierson, Vice-President



DE TRAY PLATING WORKS

Please Visit our Web Site : [DeTrayPlating.com](http://DeTrayPlating.com)



# Johnstown Wire Technologies

124 Laurel Ave,  
Johnstown, PA 15906

Phone: 814-532-5680  
Fax: 814-532-5684

WORK ORDER  
026652

**TEST REPORT**  
LOT NUMBER  
**K-8195136**  
SALES ORDER / RLS  
**005225 / 2**

SOLD TO

Mac Fasteners, Inc.  
C/O TD Logistics Inc.  
14505 W 100th Street  
Lenexa, KS 66215  
USA



CUSTOMER P.O. 50516	CUSTOMER PART 8740-.2465	QUANTITY 17,407 LBS	COILS 10	LADING NO 00122971	SHIPMENT DATE 03/09/2014							
<b>SPECIFICATION MacFast-87246</b> <b>AMS2301; AMS6322; AMS-S-6049A; MIL-S-6049A 8740 DFARS TS 95000 PSI Max Defense Federal Acquisition Regulation Supplement Silicon Killed Fine Grain Aircraft Quality/Cold Heading Quality Drawn From Annealed Rod Spheroidize Annealed In Process Heavy Phos &amp; Light Lube Ctd</b> <b>Size: .2465 +.0005 -.0005</b>												
<b>CERTIFICATION REQUIREMENTS</b>												
<b>Chemical</b>												
C .42	Mn .87	P .010	S .012	Si .25	Al .027	Ni .43	Cr .50	Mo .21	Cu .07	V .003		
Cb .000	Ti ????????	N .0064	Sn .004									
<b>Physical</b>												
AMS 2301 0000	J1 58	J10 41	J11 39	J12 38	J2 58	J3 57	J5 55	J4 56	J6 53	J7 51	J8 47	J9 44
MacroClean E-381 111												
<b>Mechanical</b>												
<b>TEST</b>	<b>UNITS</b>		<b>HIGH</b>		<b>LOW</b>		<b>AVERAGE</b>					
Tensile Str	Lbs/SqIn		88000		87000		87000					
RA Per Cent	Percent		74.6		72.5		73.3					
Decarb FFD	Inches		.000		.000		.000					
Surface def. depth	Inches		.000		.000		.000					
<b>Rod / Melt Source</b>												
Rod Source Republic	Melt Source Republic		Country of Origin USA		Nafta Yes							
End of Certification												

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

*Daniel J. Malik*  
Daniel J. Malik Director of Quality Assurance

S-2



1807 EAST 28TH ST.  
PHONE: 330-438-5580

LORAIN, OH 44055  
FAX: 330-438-5695

## CERTIFICATE OF TESTS

REPUBLIC STEEL

1/10/2014  
2:13:00 PM  
PAGE 1 OF 2

PURCHASE ORD: 85080  
PART NUMBER: FXT40AA-.375  
ORDER NUMBER: 1564645 - 01  
HEAT: 8195136

PURCHASE ORDER DATE: 8/26/2013  
ACCOUNT NUMBER: 5672-1920-01  
SCHEDULE: 2429-94  
REVISION: 1

===== CHARGE ADDRESS ===== SHIP TO =====

JOHNSTOWN WIRE TECHNOLOGIES  
124 LAUREL AVE  
JOHNSTOWN, PA 15906

JOHNSTOWN WIRE TECHNOLOGIES  
EDWARD ZAPOLA  
124 LAUREL AVE  
TRUCK STPO 9 ROD DOCK  
JOHNSTOWN, PA 15904

## ----- MATERIAL DESCRIPTION -----

HOT ROLLED STEEL COILS ALLOY JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA 10.3 AMS  
6322N EXC HARD JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COMD  
B-1 EXC MARK & UT WAIVED AMS 2301K JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE  
DEFECTS EF-AISI-8740-H FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY RESTRICTED  
CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS  
SIZE: RDS .3750 DIAM X COIL  
RDS 9.5250MM DIAM X COIL

## ----- LADLE CHEMISTRY % -----

C	MN	P	S	SI	CU	NI	CR
0.42	0.87	0.010	0.012	0.25	0.07	0.43	0.50
V	MO	SN	AL	B	CB	N	
0.003	0.21	0.004	0.027	0.0000	0.000	0.0064	

## ----- CALCULATED TESTS -----

REDUCTION RATIO 1,177.6 TO 1

## ----- SEMI - FINISHED RESULTS -----

GRAIN SIZE TEST ASTM A29/ASTM E112  
PCE H30301 MCQUAID = 7.00000

## JOMINY HARDNESS TEST SAE J406/ASTM A255

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32  
58 58 57 56 55 53 51 47 44 41 39 38 36 35 34 34 32 32 30 30 30 29 29 28

## MACRO ETCH TEST ASTM E381/MIL STD 430

ETCHANT: HCL TEMPERATURE: 170

	S	R	C
AVG	1	1	1

## MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300

	IND	AVG	IND	AVG
PCE 03	0	0	0	0

## ----- FINISHED SIZE RESULTS -----

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558  
ETCHANT = NITAL MAGNIFICATION = 100X

	SPIKE	COMPLETE	TOTAL
PCE 336	0.002	0	0.002

G. KRUTH  
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES

*MT Kruth*

1807 EAST 28TH ST.  
PHONE: 330-438-8380LORAIN, OH 44055  
FAX: 330-438-5695

## CERTIFICATE OF TESTS

REPUBLIC STEEL

1/10/2014  
2:13:00 PM  
PAGE 2 OF 2PURCHASE ORD: 85080  
PART NUMBER: FXT40AA-.375  
ORDER NUMBER: 1564645 - 01  
HEAT: 8195135PURCHASE ORDER DATE: 8/26/2013  
ACCOUNT NUMBER: 5672-1920 01  
SCHEDULE: 2429-94  
REVISION: 1

CAPABLE OF SEAM DEPTH 14 MAX DIAMETER NOT LESS THAN .005 MAX

## NOTES

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

## NOTES (CONTINUED)

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

THE PRODUCTS SUPPLIED BY REPUBLIC STEEL DO NOT HAVE TANTALUM, TIN, TUNGSTEN, OR GOLD (COLLECTIVELY, "CONFLICT MINERALS") ADDED DURING PRODUCTION. ANY MEASURABLE AMOUNTS OF THESE ELEMENTS CONTAINED IN OUR STEEL ARE DERIVED FROM RESIDUAL MATERIALS IN THE RECYCLED SCRAP THAT WE PURCHASE FOR ELECTRIC ARC FURNACE STEEL MAKING. THEY ARE NOT "NECESSARY TO THE FUNCTIONALITY OR PRODUCTION OF OUR STEEL."

## SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A  
MELT METHOD: EF BLOOM RED. RATIO: 1177.6

END OF DATA CC END OF DATA

WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA  
FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA 1-814-532-5684  
FILE 1 COPYG. KRUTH  
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191  
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR  
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


### Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

**FIRM: DART AEROSPACE LTD**

**PURCHASE ORDER#: PO27096**

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
6	500	EA	AN3CSA		68636	MAC FASTENERS	ORPT4		

  
\_\_\_\_\_  
Jason Lewis  
Senior Director, Global Quality

01/19/15

Inv # 01/19/15

**MAC FASTENERS, INC.**  
**1110 ENTERPRISE**  
**OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE  
AND  
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0RJS95

PART NUMBER: AN3C5A

REV: 3

LOT NUMBER: 68636

MANUFACTURED QUANTITY: 60,000

MILL HEAT NUMBER: 571573

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

**MERCURY FREE CERTIFICATION**

MacFasteners certifies that the parts referenced in the above lot number  
do not contain Mercury or Mercury compounds, and were  
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4  
Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 10/24/14

  
QUALITY ASSURANCE REPRESENTATIVE

MAC FASTENERS, INC.  
1110 EAST ENTERPRISE  
OTTAWA, KS 66067

## CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER B/E AEROSPACE	PO NUMBER 0RJS95	MFG QUANTITY 60,000	DATE 10/24/14
PART NUMBER AN3C5A	REV 3	LOT NO 68636	PROCUREMENT SPEC NASM6812

MATERIAL TYPE 431				MATERIAL SPECIFICATION MIL-S-18732/ASTM A493				MILL HEAT NUMBER 571573			SUPPLIER CARPENTER		
C .16	Si .53	Mn .63	P .016	S .002	Cu .08	Ni 1.55	Cr 16.13	Mo .09	V	B	Fe	Al	Ti
	Co	N .05	Bi	Pb	Mg	Zn		Nb	Sn			Other	

### MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
3,490	
3,530	
3,550	
3,510	
3,540	
MIN. REQ.	2,210

DOUBLE SHEAR STRENGTH POUNDS / PSI	
TOO SHORT TO TEST PER NASM1312-13	
MIN. REQ.	

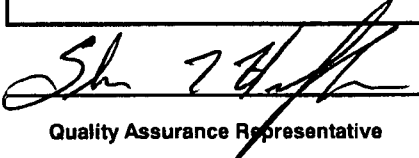
HARDNESS	
ROCKWELL "C" SCALE	
REQ.	26 - 32 HRC
SAMPLE SIZE	5
ACTUAL RESULTS	
28 - 30 HRC	

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>
Fatigue Strength	<input type="checkbox"/>
Stress Durability Test NASM1312/5	<input type="checkbox"/>
Stress Rupture Test	<input type="checkbox"/>
Magnetic Permeability ASTM A342 Less than 2.0	<input type="checkbox"/>

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3		System 21 <input type="checkbox"/>	System 22 <input checked="" type="checkbox"/> System 23 <input type="checkbox"/>

### TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

  
Quality Assurance Representative

# Paulo Products Co Heat Treat Certification

PART NUMBER	PO #	LOT/ JOB #	QTY	NET WT	MTL	HRC REQ'D	# OF SAMP	PAULO ORDER #	RESULTS	*AUSTENTIZE*		*TEMPER*	
										EQUIP/ CYCLE ID	TEMP/ TIME	EQUIP ID	TEMP/ TIME
AN4C4A	105078	73283	15,000	214	431	26-32	8	1280942-01	29-31 HRC	1205/177711-1	1875±25°/50min	1233	1175±15°/4hrs10min
AN3C5A	105079	68636	50,000	463.2	431	26-32	8	1280942-02	28-30 HRC	1205/177711-1	1875±25°/50min	1233	1175±15°/4hrs10min
AN4CH11A	105113	73241	2,500	36.6	431	26-32	8	1280942-03	30-31 HRC	1205/177711-1	1875±25°/50min	1233	1175±15°/4hrs10min
AN4C7A	105133	73367	10,000	215.6	431	26-32	8	1281244-01	26-28 HRC	1205/177711-1	1875±25°/50min	1233	1175±15°/4hrs10min
AN4C10	105135	74100	2,500	57.2	431	26-32	8	1281244-02	30-31 HRC	1205/177711-1	1875±25°/50min	1233	1175±15°/4hrs10min
AN4C4A	105046	68564	75,000	587	431	26-32	8	1281885-01	30-32 HRC	1205/177711-1	1875±25°/50min	1233	1175±15°/4hrs10min

## CERTIFICATION

WE CERTIFY THAT THE ABOVE REFERENCED PARTS WERE HEAT TREATED IN ACCORDANCE WITH AMS2759 AND CUSTOMER REQUIREMENTS. SAMPLES HAVE BEEN TESTED TO VERIFY HARDNESS AS SPECIFIED PER CUSTOMER REQUIREMENTS. PAULO PRODUCTS, INC. IS A NADCAP CERTIFIED PROCESSOR.

d\_mac\_nadcap\_cert\_log\_ps1001

INSPECTOR

APPROVED BY

Results: \*\* denotes (Customer Accepted AS-IS - Deviation on File)

DATE



# DE TRAY Plating Works

Specialized Electro-Plating and Polishing  
Nickel  
Copper  
Decorative Chrome  
Satin Chrome  
Zinc  
Cadmium  
Passivate  
Bright Dip  
Strip Copper  
Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052  
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

Passivate Treatment per AMS2700 Method 1, Class 4

CUSTOMER: Mac Fasteners Lot#: 68636  
PART NUMBER: AN3C5A  
PROCUREMENT SPECIFICATION: n/a  
OTHER CONTRACTURAL REQUIREMENTS:  
MATERIAL: 431  
QUANTITY: 450 lbs  
INVOICE NUMBER: 184369

#### Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with AMS2700 Method 1, Class 4 and part standard.

DE TRAY PLATING WORKS

NAME:

JAMES T. LEE  
JOB TITLE: VICE-PRESIDENT

DATE: 10/22/2014

CERTIFICATE OF TESTS  
CERT SERIAL# 000929415

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



**CARPENTER**

Carpenter Technology Corporation  
101 West Bern Street, Reading, Pa. 19601  
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

07/10/14

CUSTOMER/BESTELLER/CLIENT

SELLER/VERKÄUFER/VENDEUR PAGE 1 OF 2

MAC FASTENERS INC  
1110 E. ENTERPRISE  
OTTAWA, KS 66067

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET  
READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
VERBAL	LOS949501 L33183	07/10/14	1235.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 571573

PRODUCT DESCRIPTION: TYPE 431 AIRCRAFT QUAL ANNEALED COLD FINISH SEAM FREE C  
----- HDG CL N2 HVY CU/MOLY/SOAP

SPECIFICATION: AMS 5628 (REFFIRMED) REV F (10/ /06)  
----- ASTM-A493-09 (REAPPROVED 2013)  
DFARS 1998 EDITION

SIZE 0.186000 IN. ( 4.72 MM) RD WIRE

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.16	0.63	0.53	0.016	0.002	16.13
NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)		
1.55	0.09	0.08	0.05		

THIS MATERIAL CONFORMS TO THE TECHNICAL REQUIREMENTS OF THE AMS SPECIFICATION REFERENCED ABOVE.

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES

DISCS MACROETCHED AND APPROVED

TENSILE AS SHIPPED, KSI(MPA) 103.0( 710)

CAPABILITY

1875 F( 1024 C), 30 MN  
QUENCH IN AGITATED OIL AT 125F +/-25F COOL T  
1175 F( 635 C), 03 HR AIR COOL

RETAINED AUSTENITE - NONE (VILELLAS)

MICROSTRUCTURE - FERRITE - NONE (VILELLAS)

GRAIN SIZE PER ASTM E112: 9 (VILELLAS)

CONTINUED ON NEXT PAGE

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CERTIFICATE OF TESTS  
CERT SERIAL# 000929415

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



CARPENTER

Carpenter Technology Corporation  
101 West Bern Street, Reading, Pa. 19601  
Tel: (610) 208-2000 (800) 338-4592

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- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
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07/10/14

CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEUR PAGE 2 OF 2

MAC FASTENERS INC  
1110 E. ENTERPRISE  
OTTAWA, KS 66067

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET  
READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
VERBAL	LOS949501 L33183	07/10/14	1235.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 571573

CAPABILITY

1875 F ( 1024 C ), 01 HR OIL TREAT  
-100 F ( -73 C ), 02 HR  
WARM TO ROOM TEMPERATURE.  
550 F ( 288 C ), 02 HR AIR COOL  
550 F ( 288 C ), 02 HR AIR COOL

(T)RANSVERSE (L)ONGITUDINAL L  
YIELD STRENGTH, (0.20 %) KSI(MPA) 159.0 ( 1096 )  
TENSILE STRENGTH, KSI(MPA) 220.0 ( 1517 )  
ELONGATION IN 2.00", % 16.0  
REDUCTION OF AREA, % 52.0

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 31 DATED 09/03/13.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2013 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 13-1996R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

TYLER SCHAPPELL  
ADMINISTRATOR - QUALITY  
CARPENTER TECHNOLOGY CORPORATION

*Tyler A Schappell*

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